

**FUSELAGE STRUCTURAL SKELETON—SECTION 41**

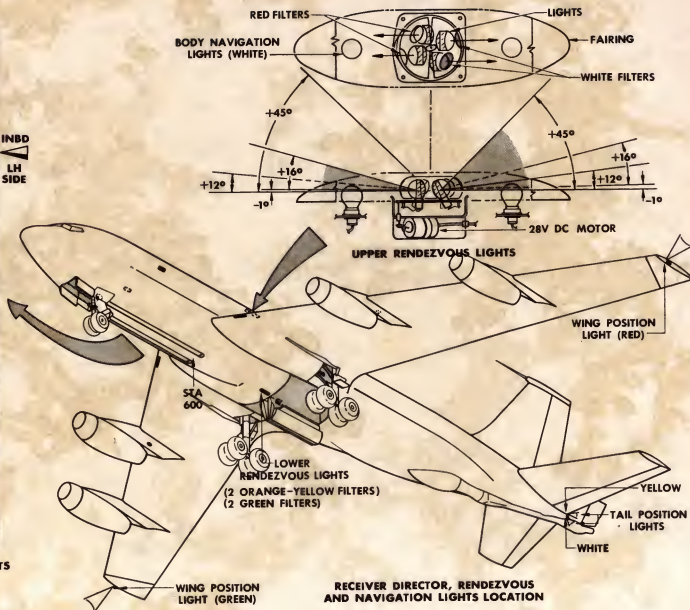
**ANGULAR FUNCTIONS**

$E = 36^{\circ}49' 16.2000''$   
 $B = 33^{\circ}47' 45.871''$   
 $A = 24^{\circ}27' 3.632''$   
 $Y = 16^{\circ}46' 17.133''$   
 $S = 6^{\circ}41' 42.975''$   
 $O = 11^{\circ}55' 20.229''$

**HULL PLAN VIEW DIMENSIONS AND LABELS:**

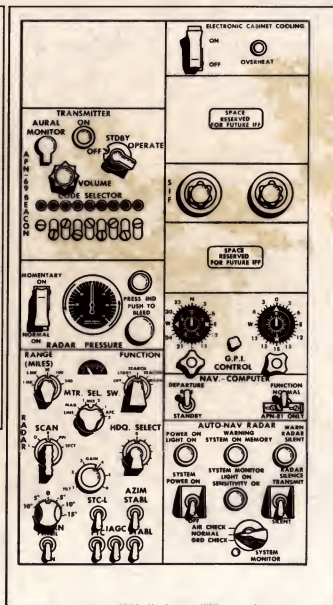
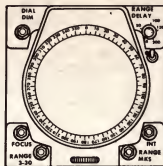
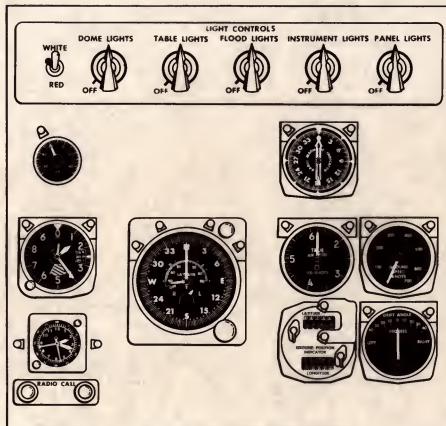
- Top Dimensions:** 187.052, 85.000, 24.00, 10.50, 15.50
- Left Side Dimensions:** 220 R, 10.00 TYP (7 PLACES), 24.200, 47.038, 108.900, 114.038, 169.400, 242.000
- Internal Dimensions:** 111.65, 102.50, 93.20, 83.90, 74.40, 64.04, 62.55, 57.489, 50.53, 20.00, 18.35, 9.00
- Angles:**  $\beta = 33^{\circ}47' 45.871''$ ,  $\alpha = 24^{\circ}27' 3.632''$ ,  $\gamma = 16^{\circ}46' 17.133''$ ,  $\sigma = 6^{\circ}41' 42.975''$ ,  $\theta = 11^{\circ}55' 20.229''$
- Structural Labels:** LEADING EDGE, STIFF, RIBS AT 9 INCH CENTERS, FRONT SPAR, REAR SPAR, RUDDER HINGE 70%, FIN T. E., FIN FOLD EDGE, RUDDER STA O, TOP OF BODY, ACTUAL TRAILING EDGE, THEORETICAL TRAILING EDGE
- Waterline (WL) Labels:** WL 542.50, WL 382, WL 303.3, WL 300, WL 292
- Other Labels:** FORMER #1, FORMER #5, FORMER #8, FORMER #9, FORMER #10, 2.46 (AT STA 234.98), 1.10, 45%, 2.00 (TYP), 1.00 (TYP), 4.08 (AT STA 12.95), 291.65, 256.000

### CENTERLINE DIAGRAM – VERTICAL TAIL



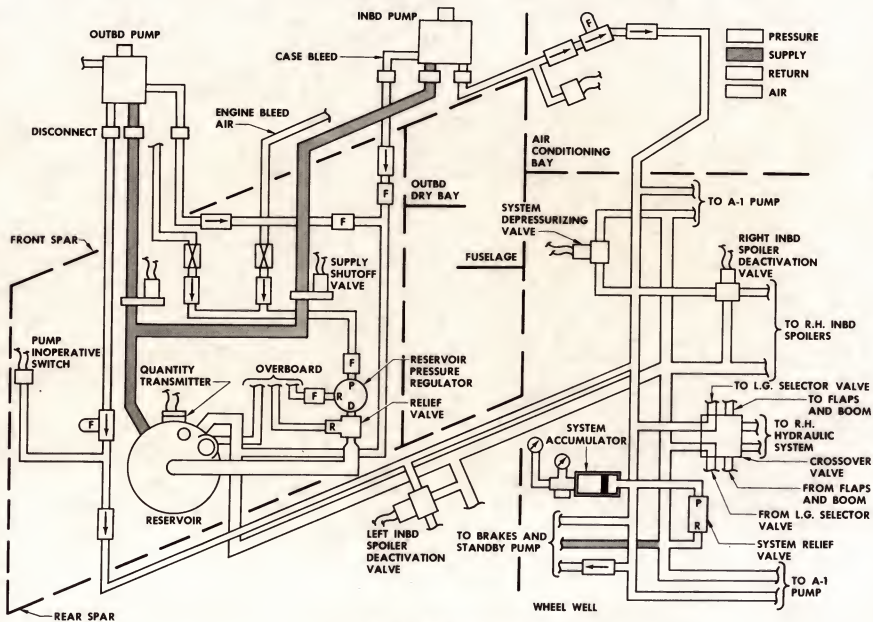
### EXTERIOR LIGHTS LOCATION



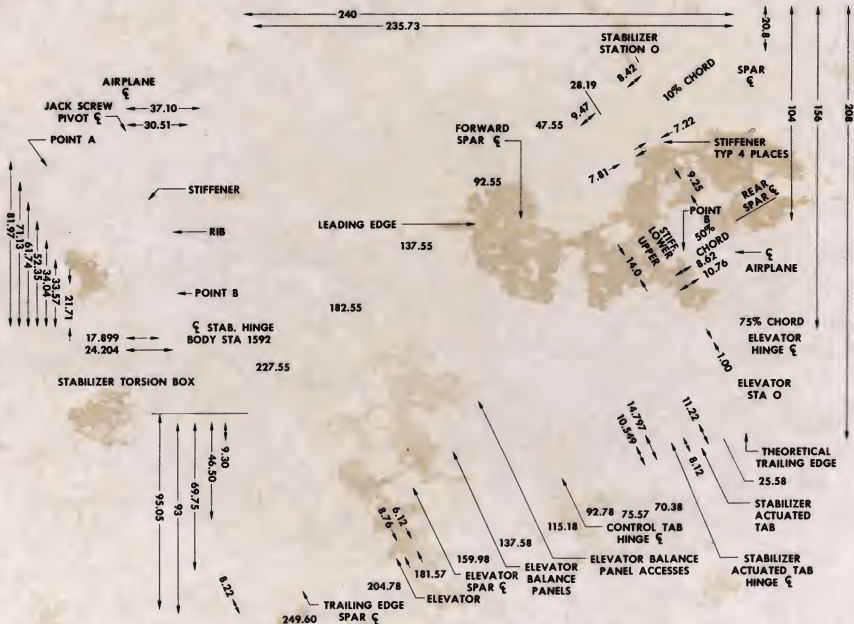


**NAVIGATOR'S PANEL-CENTER AND RIGHT SIDE**

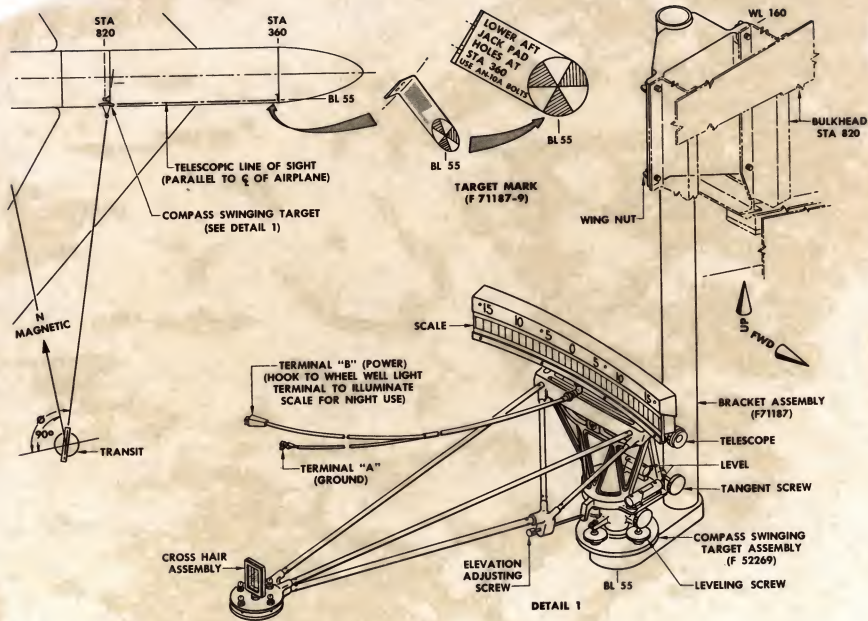




**HYDRAULIC PRESSURE SYSTEM**

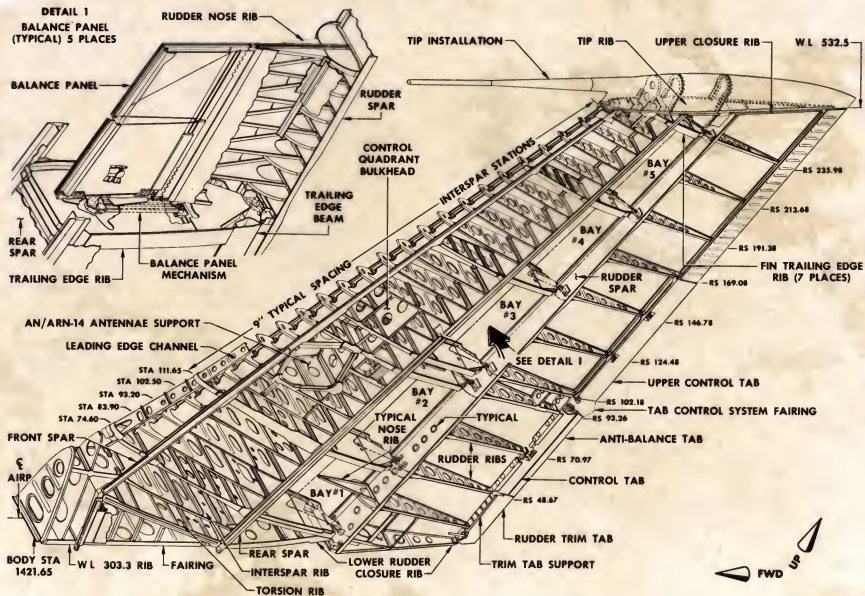


CENTERLINE DIAGRAM - HORIZONTAL STABILIZER



**COMPASS SWINGING ASSEMBLY**





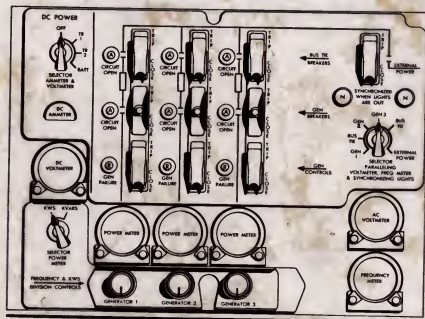
## EMPENNAGE STRUCTURAL SKELETON—FIN AND RUDDER



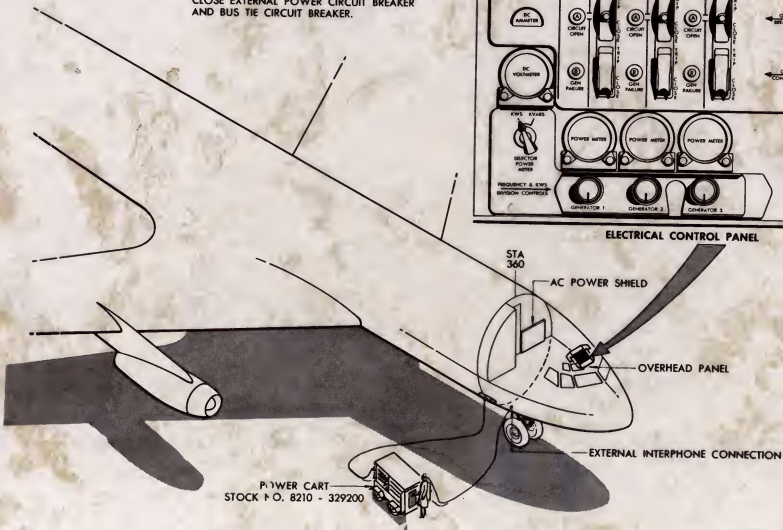
ENGINE COCKPIT CONTROLS—ENGINE INSTRUMENT PANEL AND HOOD

# **OPERATING PROCEDURE**

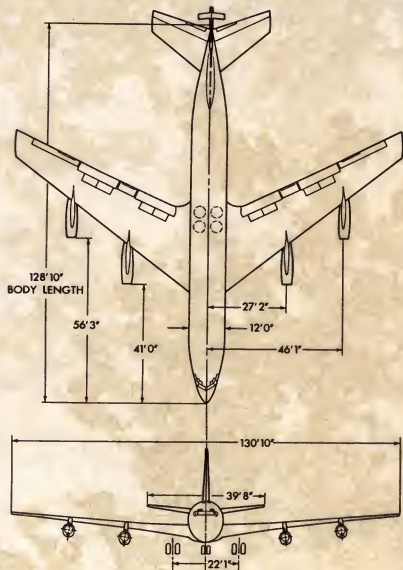
1. CLOSE EXTERNAL POWER CIRCUIT BREAKER.
2. BATTERY SWITCH TO EMERGENCY.
3. CLOSE BUS TIE CIRCUIT BREAKER.
4. IF NO BATTERY IN AIRPLANE "SIMULTANEOUSLY"  
CLOSE EXTERNAL POWER CIRCUIT BREAKER  
AND BUS TIE CIRCUIT BREAKER.



**ELECTRICAL CONTROL PANEL**



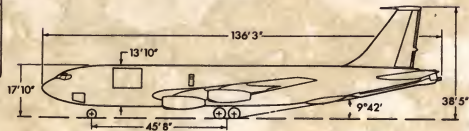
**EXTERNAL ELECTRICAL SERVICE**



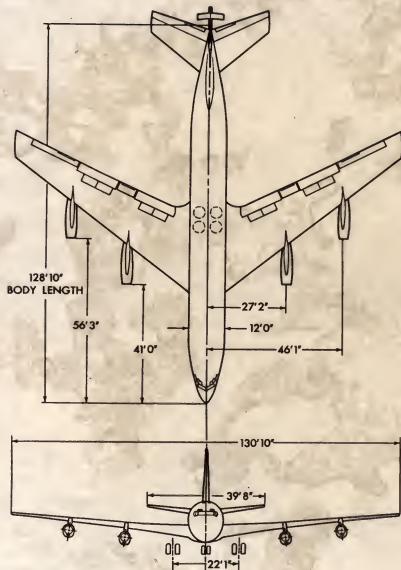
WING AREA .... 2433 SQUARE FEET  
INCLUSIVE OF  
323.09 SQUARE FEET  
OF FUSELAGE

SWEEP BACK (1/4 CHORD LINE)  
.... 35 DEGREES

DIHEDRAL ..... 7 DEGREES



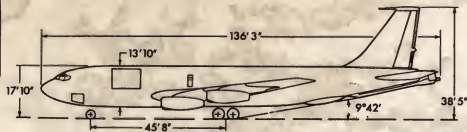
# PRINCIPLE DIMENSIONS



WING AREA .... 2433 SQUARE FEET  
INCLUSIVE OF  
323.09 SQUARE FEET  
OF FUSELAGE

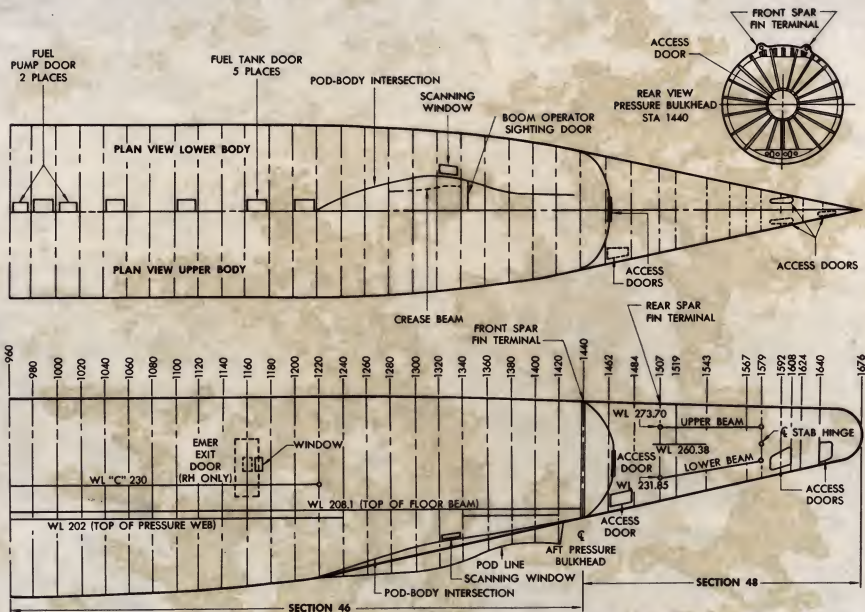
SWEEP BACK (1/4 CHORD LINE)  
.... 35 DEGREES

DIHEDRAL ..... 7 DEGREES



### PRINCIPLE DIMENSIONS

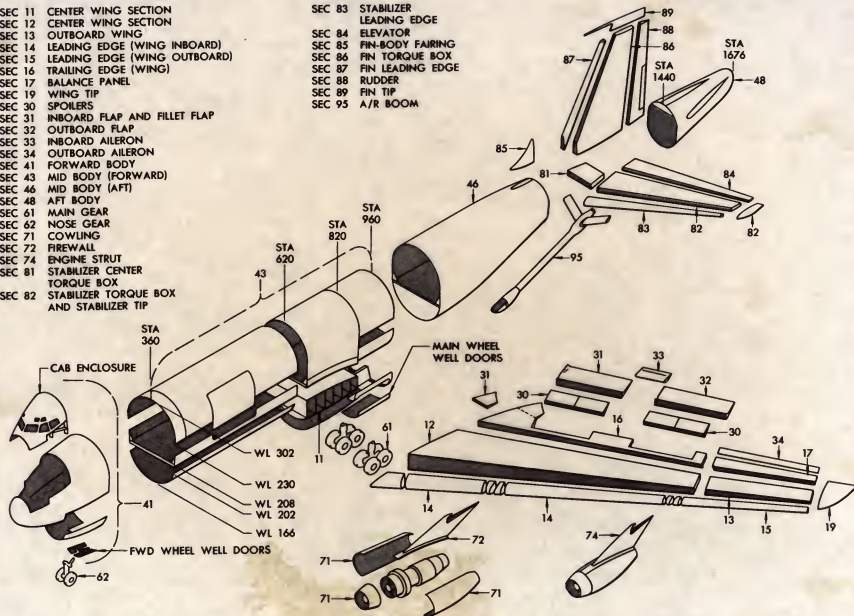




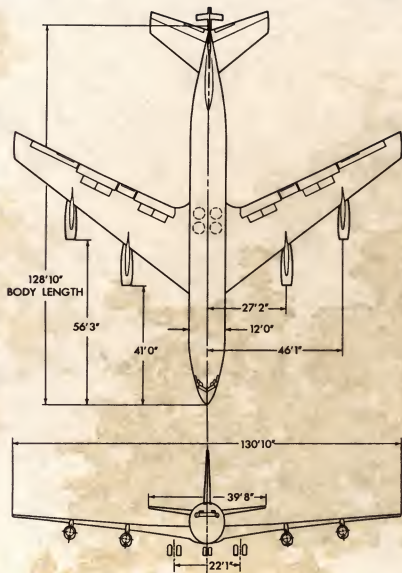
**BODY CENTERLINE DIAGRAM—SECTIONS 46 AND 48**

SEC 11 CENTER WING SECTION  
 SEC 12 CENTER WING SECTION  
 SEC 13 OUTBOARD WING  
 SEC 14 LEADING EDGE (WING INBOARD)  
 SEC 15 LEADING EDGE (WING OUTBOARD)  
 SEC 16 TRAILING EDGE (WING)  
 SEC 17 BALANCE PANEL  
 SEC 19 WING TIP  
 SEC 30 SPOILERS  
 SEC 31 INBOARD FLAP AND FILLET FLAP  
 SEC 32 OUTBOARD FLAP  
 SEC 33 INBOARD ALERON  
 SEC 34 OUTBOARD ALERON  
 SEC 41 FORWARD BODY  
 SEC 43 MID BODY (FORWARD)  
 SEC 46 MID BODY (AFT)  
 SEC 48 AFT BODY  
 SEC 61 MAIN GEAR  
 SEC 62 NOSE GEAR  
 SEC 71 COWLING  
 SEC 72 FIREWALL  
 SEC 74 ENGINE STRUT  
 SEC 81 STABILIZER CENTER  
 TORQUE BOX  
 SEC 82 STABILIZER TORQUE BOX  
 AND STABILIZER TIP

SEC 83 STABILIZER  
 LEADING EDGE  
 SEC 84 ELEVATOR  
 SEC 85 FIN-BODY FAIRING  
 SEC 86 FIN TORQUE BOX  
 SEC 87 FIN LEADING EDGE  
 SEC 88 RUDDER  
 SEC 89 FIN TIP  
 SEC 95 A/R BOOM



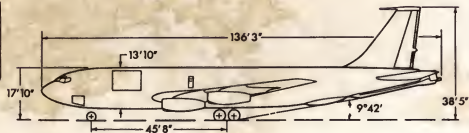
## **PRODUCTION SECTION BREAKDOWN**



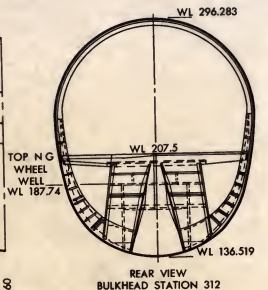
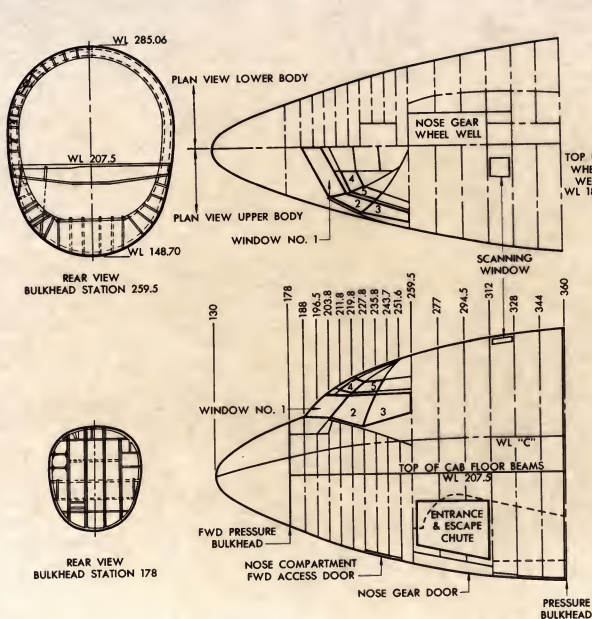
WING AREA .... 2433 SQUARE FEET  
 INCLUSIVE OF  
 323.09 SQUARE FEET  
 OF FUSELAGE

SWEEP BACK (1/4 CHORD LINE)  
 .... 35 DEGREES

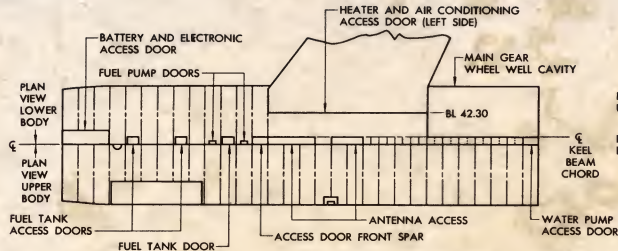
DIHEDRAL ..... 7 DEGREES



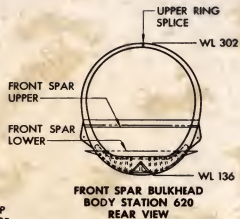
# PRINCIPLE DIMENSIONS



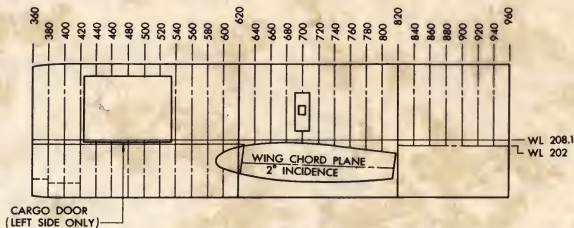
**BODY CENTERLINE DIAGRAM—SECTION 41**



PLAN VIEW



FRONT SPAR BULKHEAD BODY STATION 620 REAR VIEW



LEFT SIDE VIEW



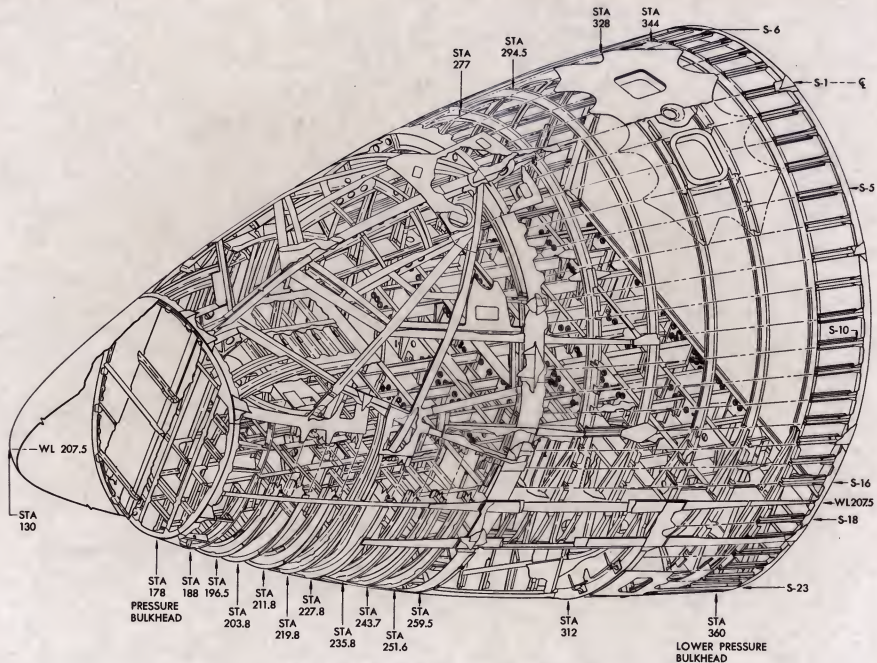
BULKHEAD STATION 820 REAR VIEW



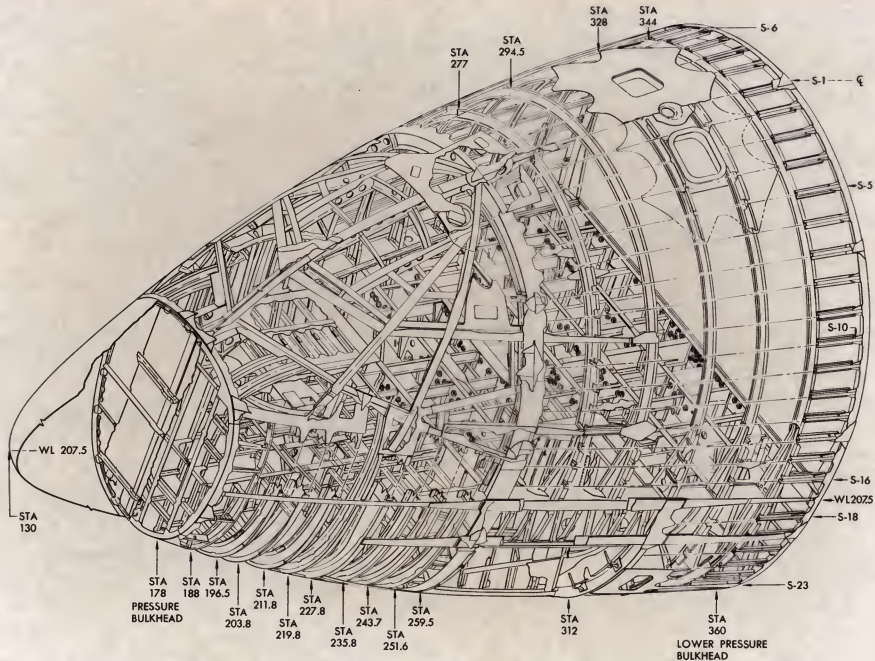
BULKHEAD STATION 620 REAR VIEW

### BODY CENTERLINE DIAGRAM—SECTION 43

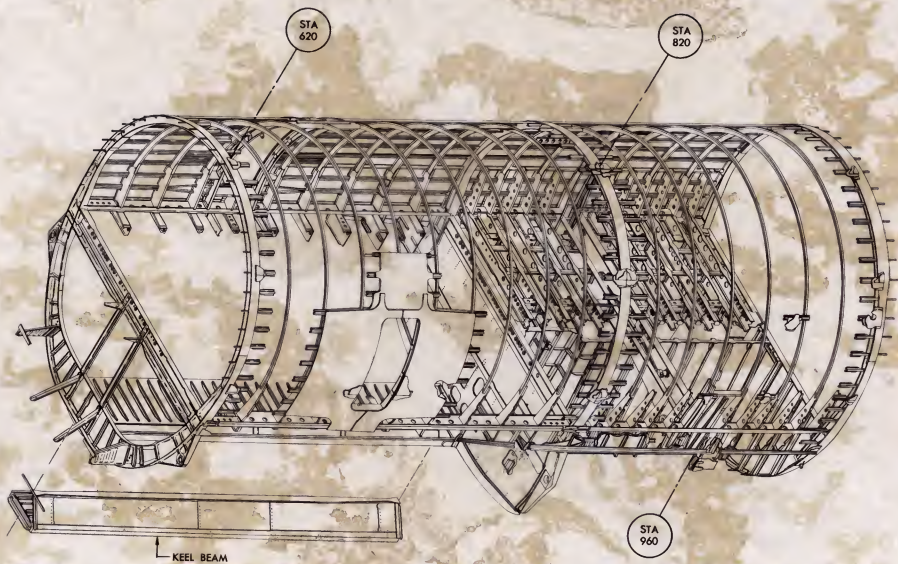




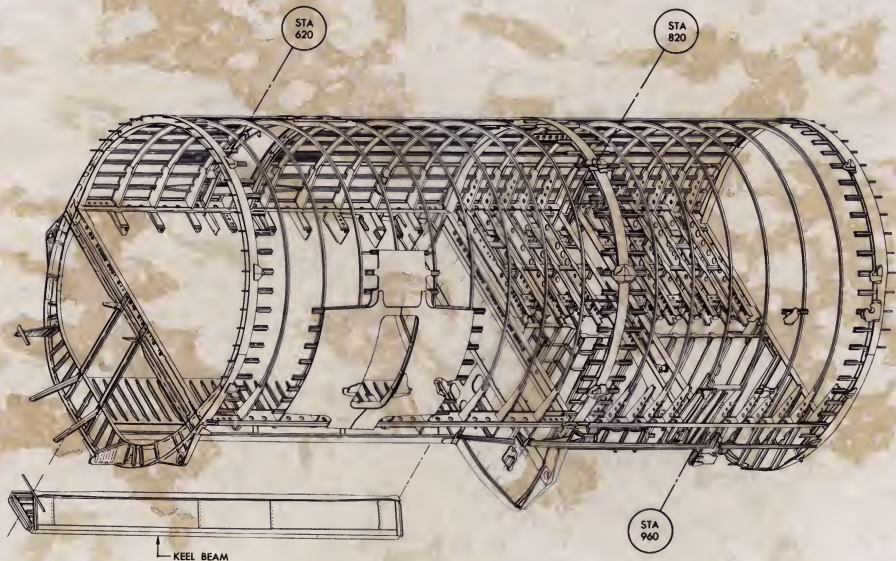
**FUSELAGE STRUCTURAL SKELETON—SECTION 41**



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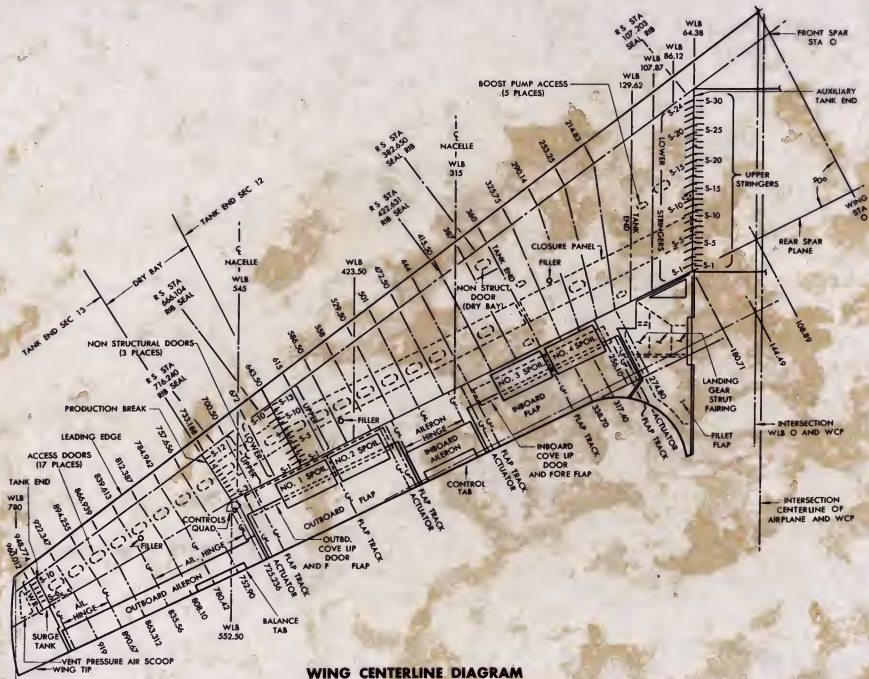


**FUSELAGE STRUCTURAL SKELETON—SECTION 43 (AFT)**

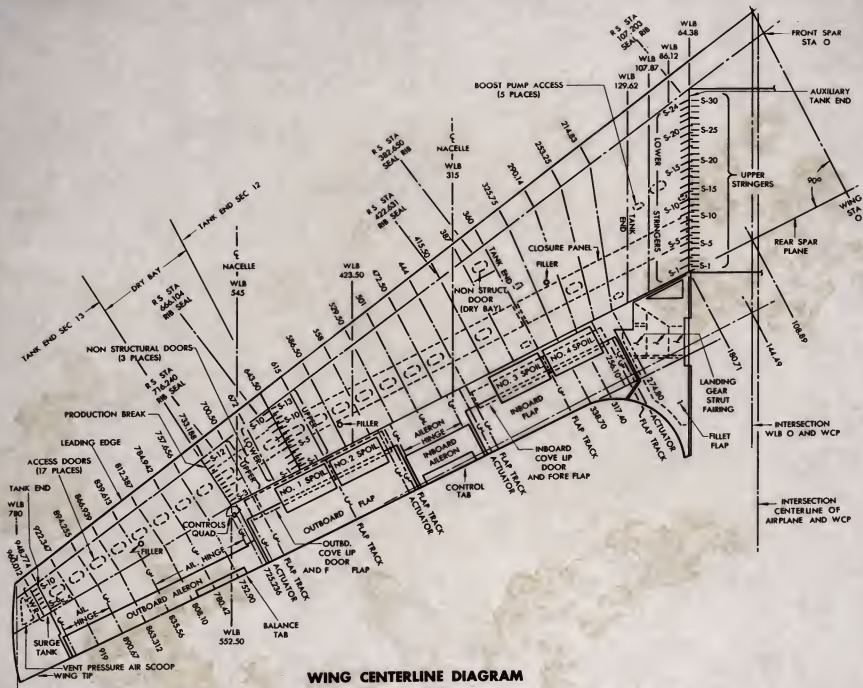


**FUSELAGE STRUCTURAL SKELETON—SECTION 43 (AFT)**



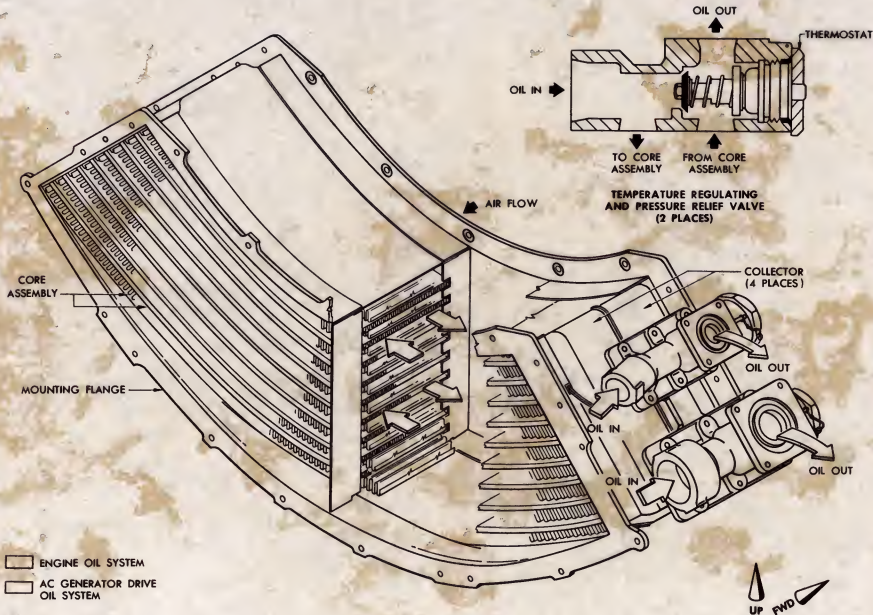




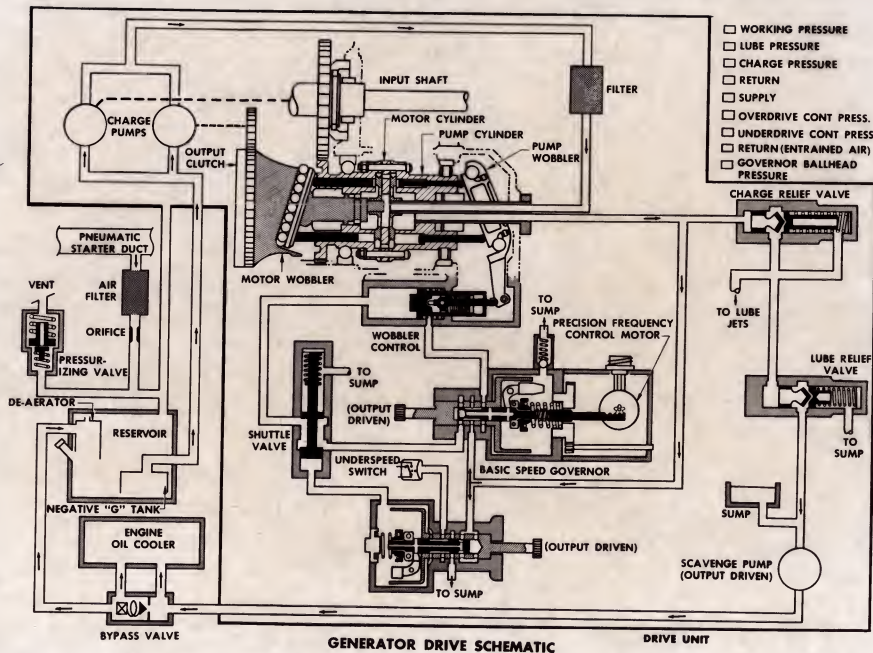


WING CENTERLINE DIAGRAM



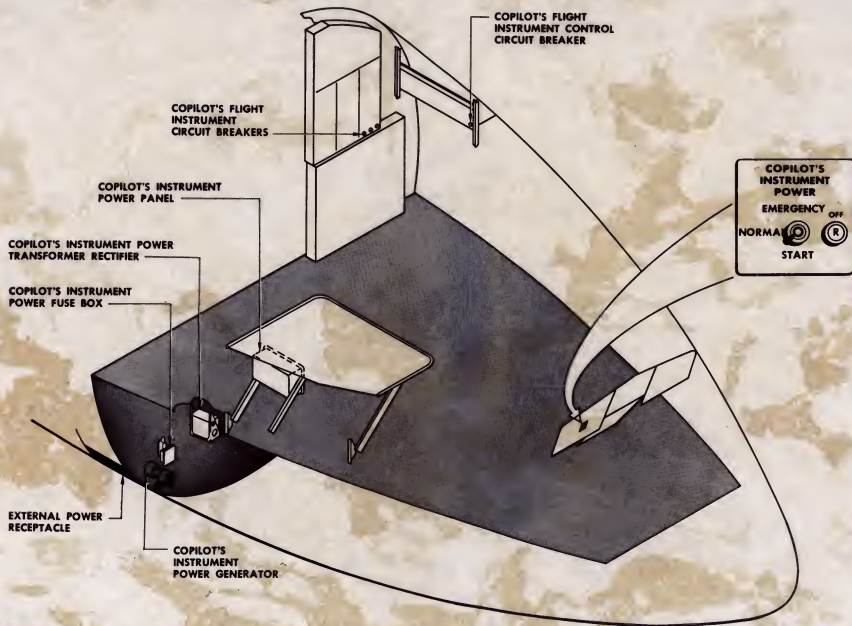


**ENGINE OIL COOLER AND BYPASS VALVE ASSEMBLY**

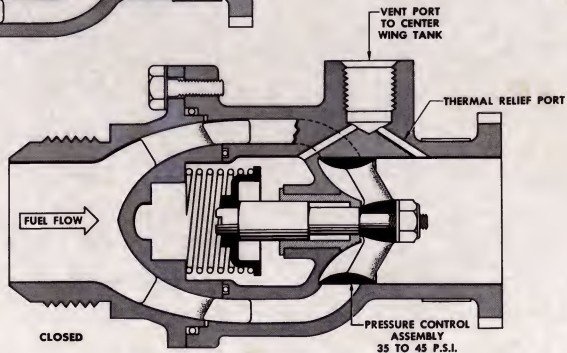
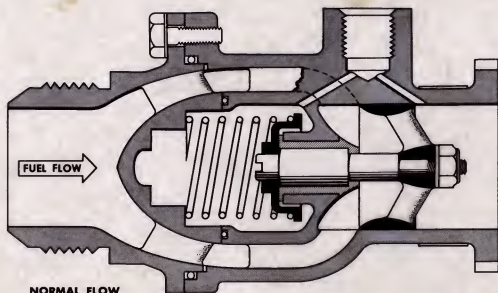


**GENERATOR DRIVE SCHEMATIC**

**DRIVE UNIT**







**FUEL PRESSURE REGULATOR**

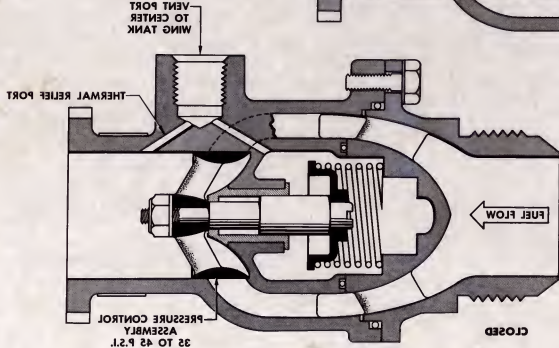
## FUEL PRESSURE REGULATOR

32 TO 42 P.S.I.  
ASSEMBLY

PRESSURE CONTROL

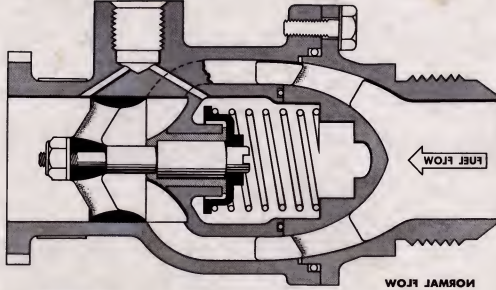
CLOSED

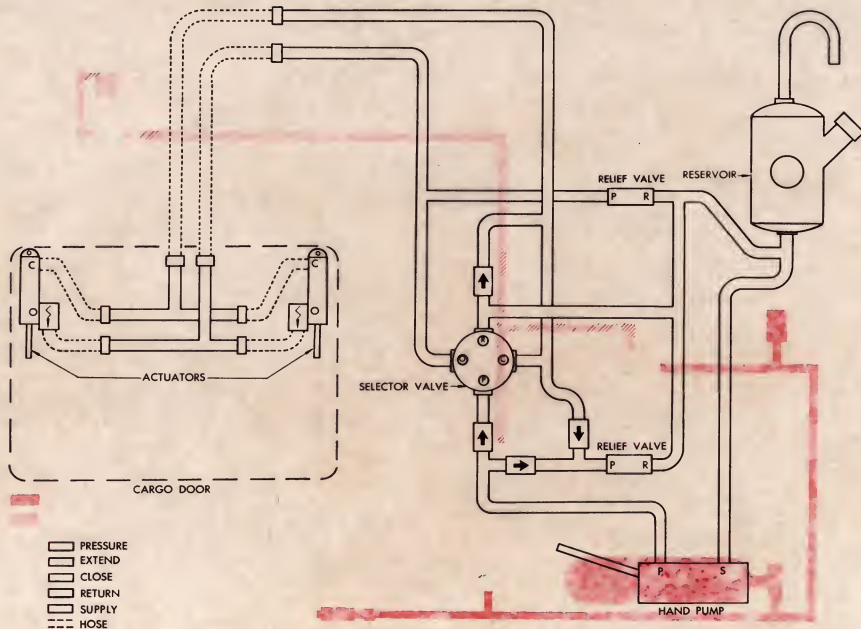
FUEL FLOW



NORMAL FLOW

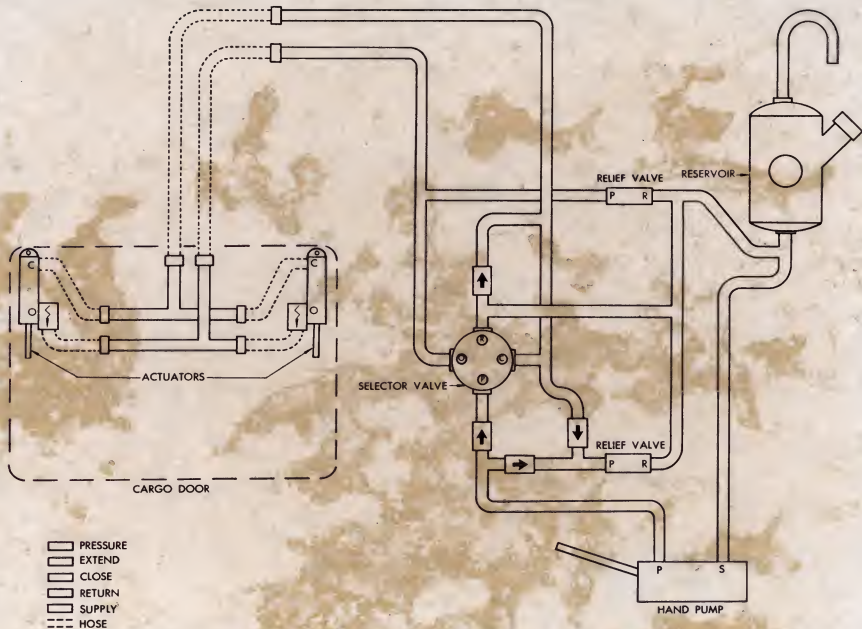
FUEL FLOW





**MAIN CARGO DOOR ACTUATING SYSTEM**

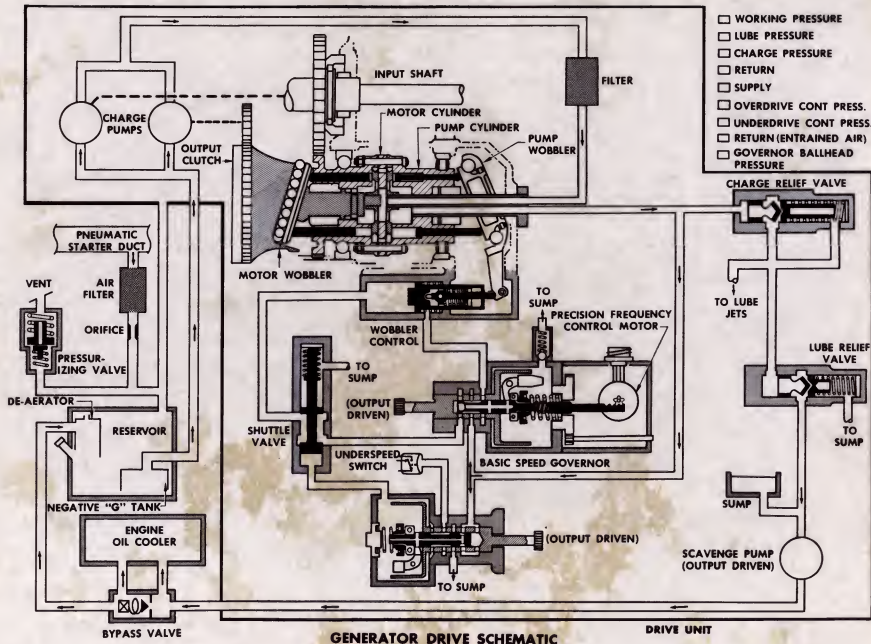




**MAIN CARGO DOOR ACTUATING SYSTEM**

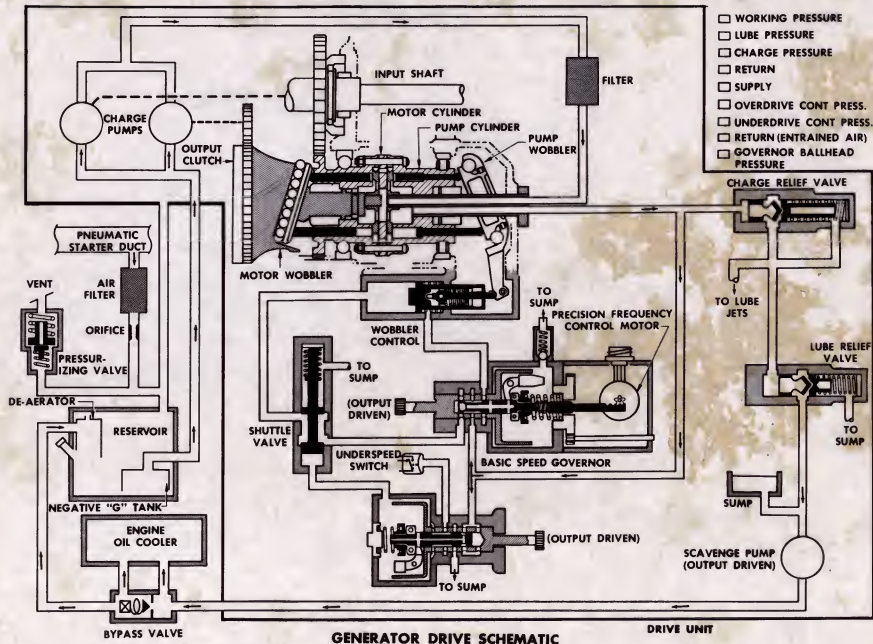


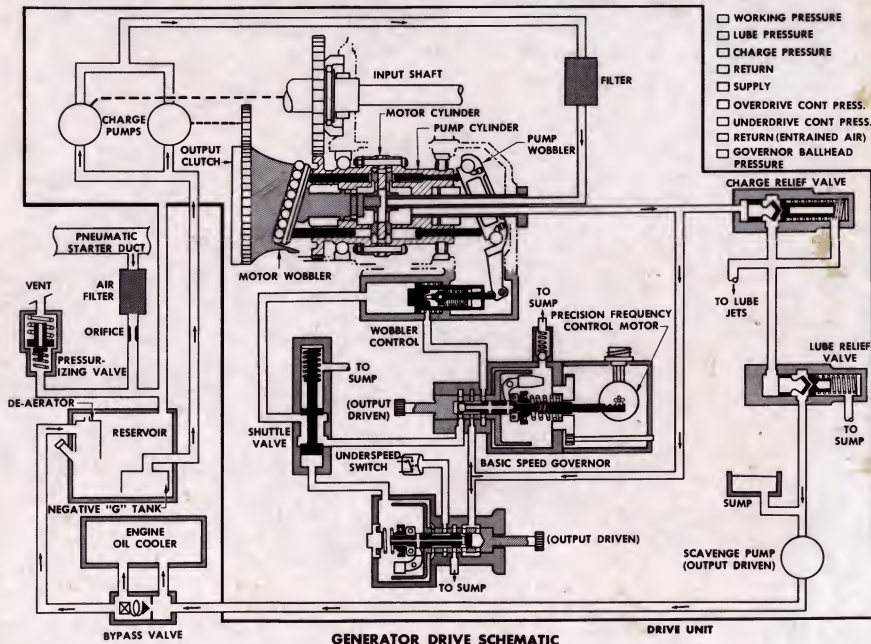




GENERATOR DRIVE SCHEMATIC

DRIVE UNIT





**GENERATOR DRIVE SCHEMATIC**

**DRIVE UNIT**